

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 091016,159E
Source: TEW16
Date Processed by STIC: 9-7-05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/09/016,159E

TIME: 14:13:15

Input Set : A:\106-001US2 seq listing.txt
 Output Set: N:\CRF4\09072005\I016159E.raw

3 <110> APPLICANT: Lee, Jong Y.
 5 <120> TITLE OF INVENTION: PURIFIED HUMAN ERYTHROPOIETIN RECEPTOR PROTEIN FRAGMENT AND
 6 ANTIBODIES DERIVED THEREFROM
 8 <130> FILE REFERENCE: 106.001US2
 10 <140> CURRENT APPLICATION NUMBER: US 09/016,159E
 11 <141> CURRENT FILING DATE: 1998-01-30
 13 <150> PRIOR APPLICATION NUMBER: US 08/876,227
 14 <151> PRIOR FILING DATE: 1997-06-16
 16 <160> NUMBER OF SEQ ID NOS: 5
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 23
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Artificial
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: BamH1 linker at 5' end followed by sequence for amino acids
 25
 27 through 29 of full length EpoR protein. Forward primer for SEQ
 28 ID NO:2.
 30 <400> SEQUENCE: 1
 31 ttggatccgc gcccccgct aac 23
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 22
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: EcoR1 linker followed by sequence complementary to coding
 41 sequence for amino acids 226 through 222 of full length human
 42 EpoR protein. Reverse primer for SEQ ID NO:1.
 44 <400> SEQUENCE: 2 22
 45 tgaattcggg gtccagggtcg ct
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 18
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Homo sapiens
 53 <300> PUBLICATION INFORMATION:
 54 <301> AUTHORS: Smith, D.B. et al.
 55 <302> TITLE: Single-step purification of polypeptides expressed in Escherichia
 56 coli as fusions with glutathione-S-transferase
 57 <303> JOURNAL: Gene
 58 <304> VOLUME: 67
 59 <306> PAGES: 31-40
 60 <307> DATE: 1998
 62 <300> PUBLICATION INFORMATION:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/016,159E

DATE: 09/07/2005

TIME: 14:13:15

Input Set : A:\106-001US2 seq listing.txt
 Output Set: N:\CRF4\09072005\I016159E.raw

63 <301> AUTHORS: Smith, D.B. et al.
 64 <302> TITLE: Single-step purification of polypeptides expressed in Escherichia
 65 coli as fusions with glutathione-S-transferase
 66 <303> JOURNAL: Genes and Development
 67 <304> VOLUME: 67
 68 <306> PAGES: 31-40
 69 <307> DATE: 1998
 71 <400> SEQUENCE: 3
 72 ctgggtccgc gtggatcc 18
 75 <210> SEQ ID NO: 4
 76 <211> LENGTH: 1527
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Homo sapiens
 80 <300> PUBLICATION INFORMATION:
 81 <301> AUTHORS: Jones, S.S. et al.
 82 <302> TITLE: Human Erythropoietin Receptor: Cloning, expression, and
 83 biological characterization
 84 <303> JOURNAL: Blood
 85 <304> VOLUME: 76
 86 <305> ISSUE: 1
 87 <306> PAGES: 31-35
 88 <307> DATE: 1990-07-01
 90 <400> SEQUENCE: 4
 91 atggaccacc tcggggcgtc cctctggccc caggtcggtc ccctttgtct cctgctcgct 60
 93 gggggccgcct gggcgcccccc gcctaaccctc ccggacccca agttcgagag caaagcggcc 120
 95 ttgctggcgcc cccggggggcc cgaagagctt ctgtgcttca ccgagcggtt ggaggacttg 180
 97 gtgtgtttct gggaggaagc ggcgagcgct ggggtgggcc cgggcaacta cagcttctcc 240
 99 taccagctcg aggatgagcc atggaagctg tgtcgcctgc accaggctcc cacggctcg 300
 101 ggtgcgggtgc gcttctggtg ttcgctgcct acagccgaca cgtcgagctt cgtgccccta 360
 103 gagttgcgcg tcacagcage ctccggcgct ccgcgatata accgtgtcat ccacatcaat 420
 105 gaagttagtgc tcctagacgc ccccggtgggg ctggtggcgcc gggtggctga cgagagcggc 480
 107 cacgtagtgt tgcgctggct cccgcgcct gagacaccca tgacgtctca catccgcctac 540
 109 gaggtggacg tctcgccgg caacggcgca gggagcgtac agagggttggaa gatcctggag 600
 111 ggccgcaccc agtgtgtgtc gagcaacctg cggggccgga cgcgcgtacac cttcgccgtc 660
 113 cgcgcgcgtt tggctgagcc gagcttcggc ggcttctggta ggcgcctgtc ggagcctgtg 720
 115 tcgctgctga cgcctagcga cctggacccc ctcatcctga cgctctccct catccctgtg 780
 117 gtcatcctgg tgctgctgac cgtgctcgct ctgcctctcc accgcccggc tctgaagcag 840
 119 aagatctggc ctggcatccc gagcccagag agcgagttt aaggccttt caccacccac 900
 121 aagggttaact tccagctgtg gctgtaccag aatgatggct gcctgtggtg gagccctgc 960
 123 acccccattca cggaggaccc acctgcttcc ctggaaagtcc ttcagagcg ctgtgggggg 1020
 125 acgatgcagg cagtggagcc gggacagat gatgaggggcc ccctgctggaa gcaagtggc 1080
 127 agtgagcatg cccaggatac ctatctggtg ctggacaaaat gggtgctgcc cggaaacccg 1140
 129 cccagtgagg acctcccagg gcctgggtggc agtgtggaca tagtggccat ggatgaaggc 1200
 131 tcagaagcat cctcctgctc atctgctttg gcctcgaagc ccagcccaga gggagcctct 1260
 133 gtcggcagct ttgagttacac tatcctggac cccagctccc agcttgcgt tccatggaca 1320
 135 ctgtgcccctg agctgcccccc taccccaccc cacctaaagt acctgtaccc tgggttatct 1380
 137 gactctggca tctcaactga ctacagctca ggggactccc agggagccca agggggctta 1440
 139 tccgatggcc cctactccaa cccttatgag aacagcctta tcccagccgc tgagcctctg 1500
 141 cccccccagct atgtggcttg ctcttag 1527

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/016,159E

DATE: 09/07/2005

TIME: 14:13:15

Input Set : A:\106-001US2 seq listing.txt

Output Set: N:\CRF4\09072005\I016159E.raw

144 <210> SEQ ID NO: 5
 145 <211> LENGTH: 508
 146 <212> TYPE: PRT
 147 <213> ORGANISM: Homo sapiens
 149 <300> PUBLICATION INFORMATION:
 150 <301> AUTHORS: Jones, S.S. et al.
 151 <302> TITLE: Human Erythropoietin Receptor: Cloning, expression, and
 152 biological characterization
 153 <303> JOURNAL: Blood
 154 <304> VOLUME: 76
 155 <305> ISSUE: 1
 156 <306> PAGES: 31-35
 157 <307> DATE: 1990-07-01
 159 <400> SEQUENCE: 5

161 Met Asp His Leu Gly Ala Ser Leu Trp Pro Gln Val Gly Ser Leu Cys
 162 1 5 10 15
 165 Leu Leu Leu Ala Gly Ala Ala Trp Ala Pro Pro Pro Asn Leu Pro Asp
 166 20 25 30
 169 Pro Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu
 170 35 40 45
 173 Glu Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp
 174 50 55 60
 177 Glu Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser
 178 65 70 75 80
 181 Tyr Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala
 182 85 90 95
 185 Pro Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala
 186 100 105 110
 189 Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser
 190 115 120 125
 193 Gly Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu
 194 130 135 140
 197 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly
 198 145 150 155 160
 201 His Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser
 202 165 170 175
 205 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser
 206 180 185 190
 209 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser
 210 195 200 205
 213 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met
 214 210 215 220
 217 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val
 218 225 230 235 240
 221 Ser Leu Leu Thr Pro Ser Asp Leu Asp Pro Leu Ile Leu Thr Leu Ser
 222 245 250 255
 225 Leu Ile Leu Val Val Ile Leu Val Leu Leu Thr Val Leu Ala Leu Leu
 226 260 265 270
 229 Ser His Arg Arg Ala Leu Lys Gln Lys Ile Trp Pro Gly Ile Pro Ser

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/016,159E

DATE: 09/07/2005
TIME: 14:13:15

Input Set : A:\106-001US2 seq listing.txt
Output Set: N:\CRF4\09072005\I016159E.raw

230 275 280 285
233 Pro Glu Ser Glu Phe Glu Gly Leu Phe Thr Thr His Lys Gly Asn Phe
234 290 295 300
237 Gln Leu Trp Leu Tyr Gln Asn Asp Gly Cys Leu Trp Trp Ser Pro Cys
238 305 310 315 320
241 Thr Pro Phe Thr Glu Asp Pro Pro Ala Ser Leu Glu Val Leu Ser Glu
242 325 330 335
245 Arg Cys Trp Gly Thr Met Gln Ala Val Glu Pro Gly Thr Asp Asp Glu
246 340 345 350
249 Gly Pro Leu Leu Glu Pro Val Gly Ser Glu His Ala Gln Asp Thr Tyr
250 355 360 365
253 Leu Val Leu Asp Lys Trp Leu Leu Pro Arg Asn Pro Pro Ser Glu Asp
254 370 375 380
257 Leu Pro Gly Pro Gly Gly Ser Val Asp Ile Val Ala Met Asp Glu Gly
258 385 390 395 400
261 Ser Glu Ala Ser Ser Cys Ser Ser Ala Leu Ala Ser Lys Pro Ser Pro
262 405 410 415
265 Glu Gly Ala Ser Ala Ala Ser Phe Glu Tyr Thr Ile Leu Asp Pro Ser
266 420 425 430
269 Ser Gln Leu Leu Arg Pro Trp Thr Leu Cys Pro Glu Leu Pro Pro Thr
270 435 440 445
273 Pro Pro His Leu Lys Tyr Leu Tyr Leu Val Val Ser Asp Ser Gly Ile
274 450 455 460
277 Ser Thr Asp Tyr Ser Ser Gly Asp Ser Gln Gly Ala Gln Gly Gly Leu
278 465 470 475 480
281 Ser Asp Gly Pro Tyr Ser Asn Pro Tyr Glu Asn Ser Leu Ile Pro Ala
282 485 490 495
285 Ala Glu Pro Leu Pro Pro Ser Tyr Val Ala Cys Ser
286 500 505

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/07/2005
PATENT APPLICATION: US/09/016,159E TIME: 14:13:16

Input Set : A:\106-001US2 seq listing.txt
Output Set: N:\CRF4\09072005\I016159E.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/016,159E

DATE: 09/07/2005

TIME: 14:13:16

Input Set : A:\106-001US2 seq listing.txt

Output Set: N:\CRF4\09072005\I016159E.raw